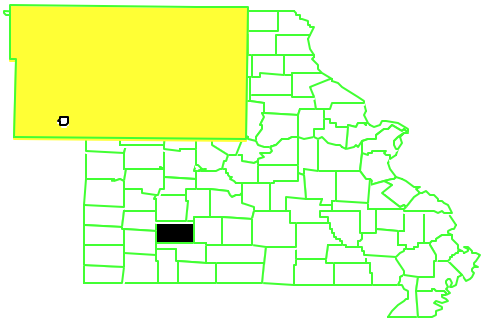
SOLID STATE CIRCUITS, INC.

MISSOURI
EPA ID# MOD980854111

EPA Region 7
City: Republic, MO
County: Greene County
Other Names: Republic Plant, SSC

07/25/2002



SITE DESCRIPTION

The Solid State Circuits, Inc. (SSC) site covers 1 acre in the city of Republic. During a 1980 drinking water study, trichloroethylene (TCE), a volatile organic compound (VOC), was detected in one of Republic's public water supply wells. Further investigation by the State identified the site where SSC formerly manufactured printed circuit boards as the source of the contamination. Allegedly, barrels of solvents, including TCE that was used as a copper residue stripper and plating wastes were stored in a sump pit in the basement of the facility. The State learned that after a fire destroyed the building, the new property owner (not SSC) buried the remaining structure and its contents in the basement, where there also was an unplugged well. SSC excavated material from the basement and installed three monitoring wells in response to an order from the State.

The Town of Republic, with an estimated population of 5,535, potentially is endangered by contaminated ground water. There are private wells and community wells located within a 3-mile radius of the site. One community well was closed as a result of the contamination. Schuyler Creek is located approximately 2 miles downgradient from the site.

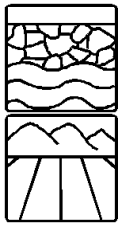
Site Responsibility:

This site is being addressed through Federal, State, and potentially responsible parties' actions.

NPL LISTING HISTORY

Proposed Date:	10/15/1984
Final Date:	06/10/1986
Deleted Date:	

THREATS AND CONTAMINANTS



Ground water on and off site is contaminated with VOCs including TCE, methylene chloride, and chloroform from the former site operations. TCE was found in on-site soil prior to immediate response actions. Removal of contaminated surface and subsurface soils have eliminated the risk of direct exposure. Sewer line and utility workers could be exposed to contaminated ground water; however, standard safety procedures will eliminate unacceptable risks.

CLEANUP APPROACH

Response Action Status

Immediate Actions: In 1984, the EPA fenced the area where the building once stood. In 1985, following SSC's initial cleanup actions at the site, the EPA removed approximately 2,000 cubic yards of soil from the basement, the soil underneath the basement, and debris to further stabilize the site. The basement was sealed with a gravel and soil cover to bring it up to grade. The EPA plugged the abandoned well, and two wells were installed to extract contaminated ground water.

Entire Site: Under the State's supervision, SSC conducted an investigation to determine the nature and extent of site contamination and to identify alternative cleanup technologies. As a result of the investigation, SSC will extract the contaminated ground water by using new and existing wells; perform on-site treatment of extracted ground water using two air strippers; discharge treated water to the city sewer system to receive further treatment at the publicly owned treatment works; and implement a city ordinance to prevent construction of drinking wells in or near the contaminated ground water plumes. Monitoring of the ground water will continue to ensure ground water quality. SSC began designing the remedy in the spring of 1991, which was completed in late 1992. A ground water pump and treatment system was installed in 1993, and will operate for an estimated 40 years or until established cleanup standards are met.

Site Facts: The EPA, the Missouri Department of Natural Resources, and Solid State Circuits signed a Consent Decree in July 1990, requiring SSC to conduct design, construction, and operation activities, under State supervision. The Consent Decree was entered by

the Court in May, 1991.

ENVIRONMENTAL PROGRESS

All construction at the site is complete. After the initial cleanup actions undertaken by Solid State Circuits, Inc., the EPA reduced remaining risks to public health and the environment by securing the site, removing contaminated soil and debris, sealing the basement area, and installing wells to extract and treat the contaminated ground water. Construction of the ground water pump and treatment system has been completed and will operate for 40 years or until established cleanup standards are met. During 1997 and 1998, Solid State Circuits, Inc. proposed implementing a pilot study focused on accelerating the ground water cleanup. The Agencies agreed and construction of a horizontal reinjection well began in 1998. The study documented a positive influence in accelerating the ground water cleanup. As a result, use of the horizontal well was made part of the permanent remedy.

SITE REPOSITORY

Springfield/Greene County Library,
393 E. Central,
Springfield, MO 65801

Superfund Records Center
901 N. 5th St.
Kansas City, KS 66101
Mail Stop SUPR
(913)551-4038

REGIONAL CONTACTS

SITE MANAGER:	Steve Auchterlonie
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COMMUNITY INVOLVEMENT COORDINATOR:	Hattie Thomas
PHONE NUMBER:	(913) 551-7003
E-MAIL ADDRESS:	thomas.hattie@epa.gov
STATE CONTACT:	Candice McGhee
PHONE NUMBER:	(573) 751-3176

MISCELLANEOUS INFORMATION

STATE:	MO
	071L
CONGRESSIONAL DISTRICT:	07
EPA ORGANIZATION:	SFD-MOKS/SUPR

MODIFICATIONS

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